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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/841,284	04/24/2001	Harold J. Vinegar	5659-06000/EBM	4716		
7	590 04/08/2002					
DEL CHRISTENSEN			EXAMINER			
SHELL OIL C P.O. BOX 246	3		SUCHFIELD,	SUCHFIELD, GEORGE A		
HOUSTON, I	77252-2463		ART UNIT	PAPER NUMBER		
			3672			
			DATE MAILED: 04/08/2002			
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Please find below and/or attached an Office communication concerning this application or proceeding.



Office Action Summary

Application No. **09/841,284**

Applicant(s)

Vinegar et al

Examiner

George Suchfield

Art Unit **3672**



	The MAILING DATE of this communication appears	on the cover sheet with th	ne corres			
A SHO THE N - Exten aft - If the be - If NO co - Failur - Any r	OR Reply ORTENED STATUTORY PERIOD FOR REPLY IS SET MAILING DATE OF THIS COMMUNICATION. sions of time may be available under the provisions of 37 C for SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) days considered timely. period for reply is specified above, the maximum statutory munication. e to reply within the set or extended period for reply will, by eply received by the Office later than three months after the rined patent term adjustment. See 37 CFR 1.704(b).	FR 1.136 (a). In no event, heation. The action is, a reply within the statutory period will apply and will exproperative, cause the application.	owever, r minimum pire SIX (6 on to bec	may a reply be timely filed n of thirty (30) days will S) MONTHS from the mailing date of this ome ABANDONED (35 U.S.C. § 133).		
Status 1) 💢	Responsive to communication(s) filed on Feb 12, 2	2002		·		
	This action is FINAL . 2b) X This act					
3) 🗆	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11; 453 O.G. 213.					
Disposi	tion of Claims					
4) 💢	Claim(s) 2193-2308 and 5081-5100 ,		is/are	pending in the application.		
4	a) Of the above, claim(s)		is/ar	e withdrawn from consideration.		
5) 🗆	Claim(s)			is/are allowed.		
6) 🗆	Claim(s)			is/are rejected.		
7) 🗆	Claim(s)			is/are objected to.		
8) 💢	Claims 2193-2308 and 5081-5100	are subject t	o restric	ction and/or election requirement.		
Applica	tion Papers					
9) 🗆	The specification is objected to by the Examiner.					
10)	The drawing(s) filed on is/are	objected to by the Exar	niner.			
11)	The proposed drawing correction filed on	is: a)□ ap	proved	b) ☐ disapproved.		
12)	The oath or declaration is objected to by the Exam	iner.				
13) ☐ a) ☐	under 35 U.S.C. § 119 Acknowledgement is made of a claim for foreign p All b) Some* c) None of: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority described application from the International Buresee the attached detailed Office action for a list of the	ve been received. ve been received in Appli ocuments have been receau (PCT Rule 17.2(a)).	cation N	lo		
14)	Acknowledgement is made of a claim for domestic			e).		
Attachm	entici					
_	errius) otice of References Cited (PTO-892)	18) Interview Summary (PTO-	413) Paper	No(s).		
	otice of Draftsperson's Patent Drawing Review (PTO-948)	19) Notice of Informal Patent				
17) 🗌 İm	formation Disclosure Statement(s) (PTO-1449) Paper No(s).	20) Other:				

Art Unit: 3672

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - I. Claims 2193-2269 and 5081-5090, drawn to a method of increasing the permeability of a coal formation, classified in class 166, subclass 308.
 - II. Claims 2270-2308, drawn to a method of increasing the porosity of a coal formation, classified in class 166, subclass 302.
 - III. Claims 5091-5100, drawn to a method of pyrolyzing and recovering hydrocarbons from a coal formation, classified in class 166, subclass 302.
- 2. The inventions are distinct, each from the other because of the following reasons:

 Inventions I, II and III are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention III has separate utility such as in a coal formation penetrated by horizontal wells and/or access tunnels, i.e., not requiring steps of increasing the permeability or porosity of the coal formation. Also, invention I could be practiced to increase the permeability, e.g., by fracturing without necessarily increasing the pore space or porosity. See MPEP § 806.05(d).
- 3. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

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4. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter, restriction for examination purposes as indicated is proper.

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- 5. This application contains claims directed to the following patentably distinct species of the claimed invention:
- A. Heating a coal formation using an electrical heater(s). Claims 2196,2235, and 2273 exemplify this species.
- B. Heating a coal formation using surface burners. Claims 2197, 2236 and 2274 exemplify this species.
- C. Heating a coal formation using a flameless distributed combustor(s). Claims 2198, 2237 and 2275 exemplify this species.
- D. Heating a coal formation using a natural distributed combustor. Claims 2199, 2238 and 2276 exemplify this species.

Applicant is required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 2193-2195, 2200-2234, 2239-2272, 2277-2308, and 5081-5100 are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, Art Unit: 3672

including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- 6. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 7. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(I).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Suchfield whose telephone number is (703) 308-2152, and is normally in the Office Monday through Friday, from 6:30 AM until 3:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Bagnell, can be reached on (703) 308-2151. The fax phone number for this Group is (703) 305-3597, (703) 305-7687 or (703) 306-4195.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 308-2168.

gs/Suchfield April 5, 2002

> George Suchfield Primary Examiner Art Unit 3672